

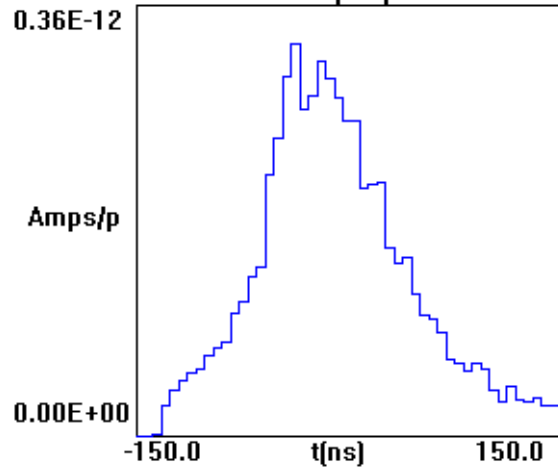
Longitudinal distribution just before the matching/bunching section.

Muon Statistics

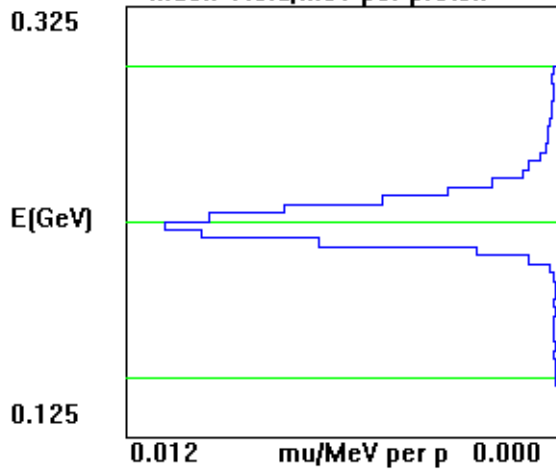
Energies marked at $\pm 32.0\%$
0.153 0.225 0.297 GeV
 μ/p within the markers = 0.22
 $t_{\text{mean}} = 1413.137 \text{ ns}$
 $t_{\text{ref}} = 1417.021 \text{ ns}$
 $Pz_{\text{mean}} = 0.200\text{E}+00 \text{ GeV/c}$
 $Pz_{\text{ref}} = 0.185\text{E}+00 \text{ GeV/c}$

 $z_{\text{rms}} = 15.368 \text{ m}$
 $pz_{\text{rms}} = 0.010 \text{ GeV}$
 $\text{emitz} = 0.486\text{E}+02 \text{ m-R norm.}$

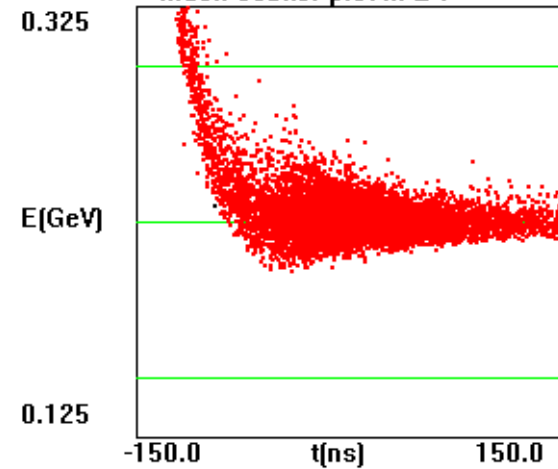
Muon Current per proton

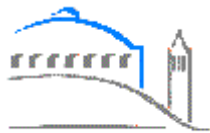


Muon-Yield/MeV per proton

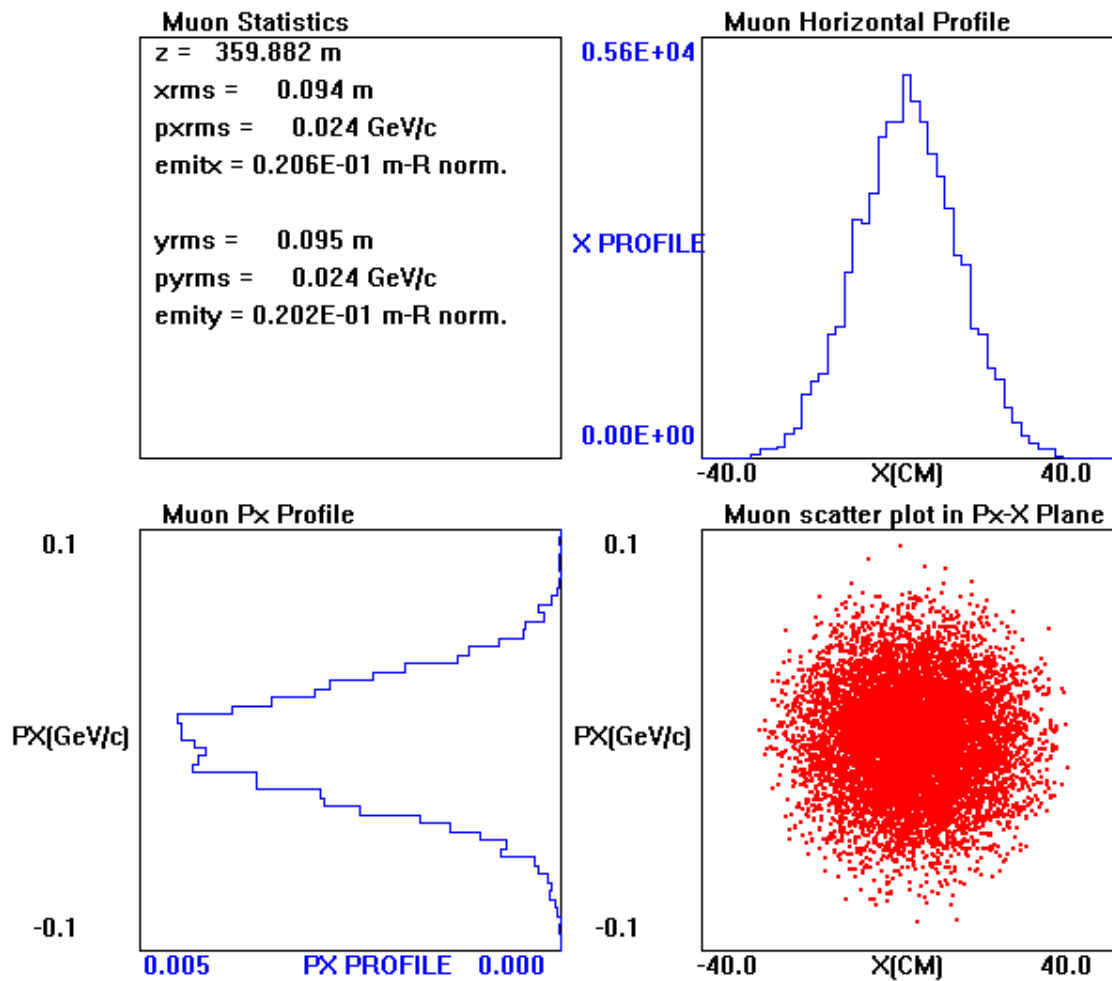


Muon scatter plot in E-t





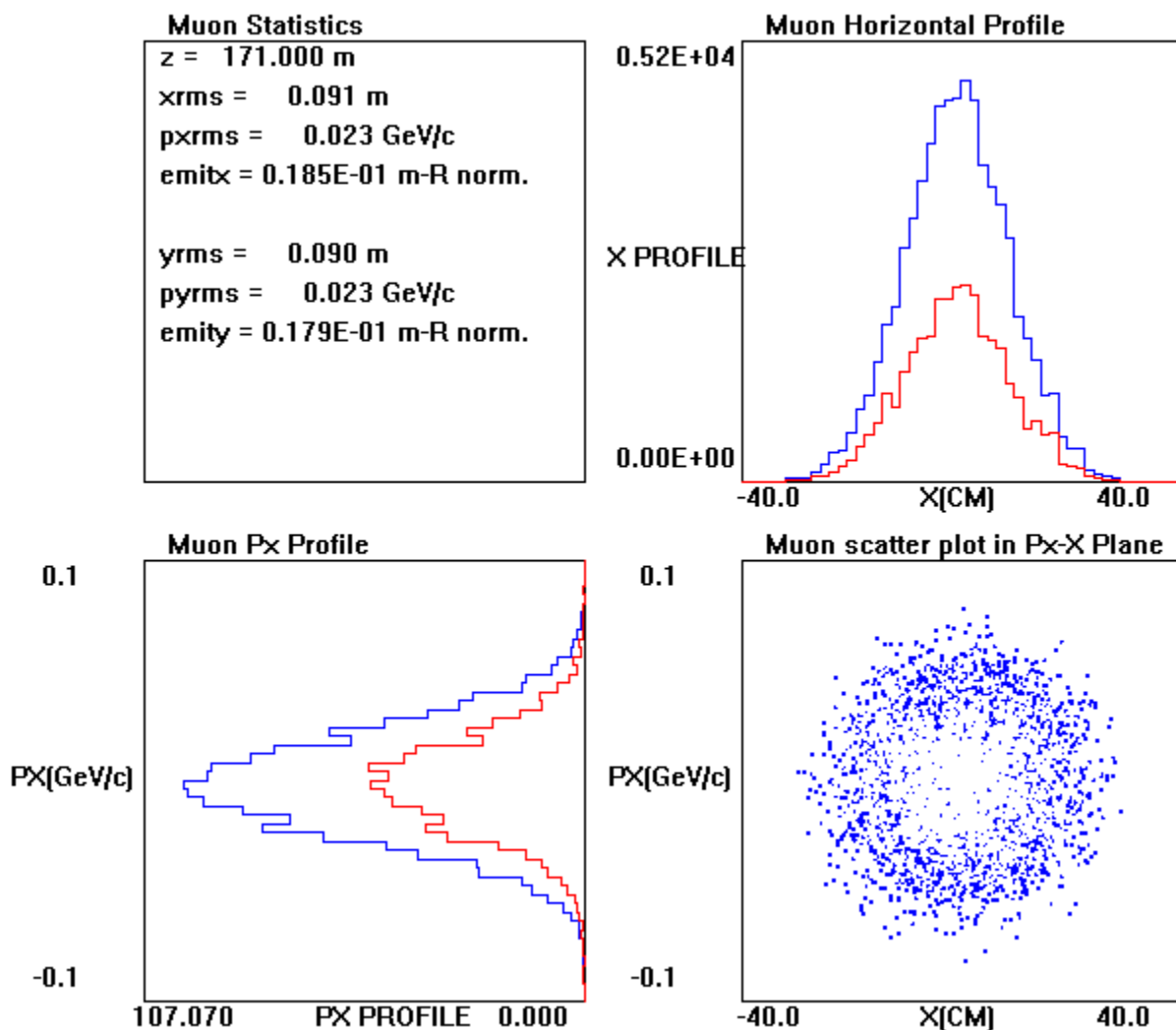
Transverse distribution just before the matching/bunching section.





Lost particle distribution: Transverse distribution at the beginning of the matching channel minus muons survived in the cooling channel.

This plot shows that the large input beam emittance to the cooling channel is responsible for the loss.





Charles H. Kim
01/10/00

Page 4